

Attorney Docket 59626US002
Application No. 10/824,029

Amendments to the Claims:

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-29 (Canceled)

30. (New) A multilayer mat comprising:

an intumescent layer having a first major surface and a second major surface opposite the first major surface, said intumescent layer having an area A1;

a first non-intumescent layer facing the first major surface of said intumescent layer, said first non-intumescent layer comprising inorganic fibers and said first non-intumescent layer having an area A2 that is greater than area A1; and

wherein said intumescent layer is positioned entirely within the area A2 of said first non-intumescent layer.

31. (New) The multilayer mat of claim 30, further comprising a second non-intumescent layer facing the second major surface of said intumescent layer, said second non-intumescent layer comprising inorganic fibers, said second non-intumescent layer having an area A3 that is greater than area A1, and wherein said intumescent layer is positioned entirely within the area A3 of said second non-intumescent layer.

32. (New) The multilayer mat of claim 31, wherein area A2 is substantially equal to area A3 and said first non-intumescent layer is aligned with said second non-intumescent layer.

33. (New) The multilayer mat of claim 31, wherein said first non-intumescent layer has a length L2 and said second non-intumescent layer has a length substantially equal to length L2 and wherein said first non-intumescent layer has a width W2 and said second non-intumescent layer has a width substantially equal to width W2.

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34. (New) The multilayer mat of claim 31, wherein said first non-intumescent layer contacts said second non-intumescent layer along at least one edge of the mat.

35. (New) The multilayer mat of claim 31, wherein said intumescent layer is divided into at least two segments that are separated from each other.

36. (New) The multilayer mat of claim 31, wherein said intumescent layer has a thickness that is 5 to 25 percent of a total mat thickness.

37. (New) The multilayer mat of claim 31, wherein said first non-intumescent layer has a first trough in a side facing said intumescent layer and said intumescent layer is positioned in the trough.

38. (New) The multilayer mat of claim 37, wherein said second non-intumescent layer has second trough on a side facing said intumescent layer, the second trough is aligned with the first trough, and said intumescent layer is positioned in the first and the second trough.

39. (New) The multilayer mat of claim 33, wherein said intumescent layer has a width W1 that is less than W2, said intumescent layer has a length L1 that is substantially equal to L2, and said second non-intumescent layer contacts said first non-intumescent layer along at least one edge of said multilayer mat.

40. (New) The multilayer mat of claim 30, wherein said multilayer mat is free of intumescent material along at least one edge of said multilayer mat.

41. (New) A pollution control device comprising:
an outer housing;
a pollution control element; and
a multilayer mounting mat according to claim 30 positioned between said pollution control element and said outer housing.

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42. (New) The pollution control device of claim 41, wherein said multilayer mat is free of intumescent material along at least one edge of said multilayer mat.

43. (New) The pollution control device of claim 41, further comprising a second non-intumescent layer facing the second major surface of said intumescent layer, said second non-intumescent layer comprising inorganic fibers, said second non-intumescent layer having an area A3 that is greater than area A1, wherein said intumescent layer is positioned entirely within the area A3 of said second non-intumescent layer.

44. (New) The pollution control device of claim 43, wherein area A2 is substantially equal to area A3 and said first non-intumescent layer is aligned with said second non-intumescent layer.

45. (New) The pollution control device of claim 43, wherein said first non-intumescent layer has a length L2 and said second non-intumescent layer has a length substantially equal to length L2 and wherein said first non-intumescent layer has a width W2 and said second non-intumescent layer has a width substantially equal to width W2.

46. (New) The pollution control device of claim 43, wherein said first non-intumescent layer contacts said second non-intumescent layer along at least one edge of said mat, said at least one edge being positioned at a gas inlet side of said pollution control device.

47. (New) The pollution control device of claim 43, wherein said intumescent layer is divided into at least two segments that are separated from each other.

48. (New) The pollution control device of claim 47, wherein said pollution control element has an elliptical cross-section and the segments of said intumescent layer are positioned over portions of said pollution control element with a smaller radius of curvature.

49. (New) The pollution control device of claim 45, wherein said intumescent layer has a length W1 that is less than W2, said intumescent layer has a length L1 that is substantially equal

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to L2, and said second non-intumescent layer contacts said first non-intumescent layer along at least one edge of said multilayer mat.

50. (New) A method of forming a multilayer mat, said method comprising:
providing an intumescent layer having a first major surface and a second major surface opposite said first major surface, said intumescent layer having an area A1;
positioning a first non-intumescent layer facing the first major surface of said intumescent layer, said first non-intumescent layer comprising inorganic fibers and having an area A2 that is greater than area A1; and
wherein said intumescent layer is positioned entirely within the area A2 of said first non-intumescent layer.

51. (New) The method of claim 50, further comprising the step of positioning a second non-intumescent layer facing the second major surface of said intumescent layer, said second non-intumescent layer being aligned with said first non-intumescent layer and comprising inorganic fibers, said second non-intumescent layer having an area A3 that is greater than area A1, and wherein said intumescent layer is positioned entirely within the area A3 of said second non-intumescent layer.

52. (New) The method of claim 51, wherein area A2 is substantially equal to area A3 and said first non-intumescent layer is aligned with said second non-intumescent layer..

53. (New) The method of claim 51, wherein said first non-intumescent layer has a length L2 and said second non-intumescent layer has a length substantially equal to length L2 and wherein said first non-intumescent layer has a width W2 and said second non-intumescent layer has a width substantially equal to width W2.

54. (New) The method of claim 51, wherein said forming comprises molding to prepare a first non-intumescent layer having a trough on a side facing said intumescent layer.

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55. (New) The method of claim 51, wherein said intumescent layer has a thickness that is 5 to 25 percent of a total mat thickness.

56. (New) The method of claim 51, wherein said positioning comprises preparing an intumescent layer having at least two segments and separating the segments.

57. (New) The method of claim 53, wherein said intumescent layer has a width W1 that is less than W2, said intumescent layer has a length L1 is substantially equal to L2, and said multilayer mat is free of intumescent material along at least one edge of said multilayer mat.

58. (New) The method of claim 51, said method further comprising cutting said multilayer mat to a size suitable for use as a mounting mat in a pollution control device.